
































# Number and Place Value: Comparing Numbers

<b>Aim:</b> Compare and order numbers up to 1000. To compare numbers up to 1000.	<b>Success Criteria:</b> I can compare 3-digit numbers using words and phrases. I can compare 3-digit numbers using symbols.	<b>Resources:</b> Lesson Pack Base ten blocks	 <b>REGENT STUDIES</b> Focused education on life's walk! www.regentstudies.com
	<b>Key/New Words:</b> Compare, biggest, bigger than, smaller than, smallest, largest, more than, greater than, less than, the same as, is equal to.	<b>Preparation:</b> Differentiated <a href="#">Activity Sheet Comparing Numbers</a> - one per child <a href="#">Diving into Mastery Activity Sheets</a> - as required	

**Prior Learning:** It will be helpful if children have an understanding of place value.

## Learning Sequence

	<b>Remember It:</b> Use the <a href="#">Lesson Presentation</a> to explain the investigation. Children find different numbers which can be made using 8 base ten blocks. If needed, they can use base ten blocks to support the investigation.				
	<b>Comparing Representations:</b> Use the <a href="#">Lesson Presentation</a> to revise comparing numbers using mathematical vocabulary and symbols. Repeat with additional examples if necessary. <a href="#">Can children compare 3-digit numbers using words and phrases?</a>				
	<b>Number Maker:</b> Using the <a href="#">Lesson Presentation</a> , roll the dice on the slide to reveal a three-digit number. Children think of an appropriate number to complete the comparison sentence. <a href="#">Can children compare 3-digit numbers using symbols?</a>				
	<b>Comparing Numbers:</b> Children complete the differentiated <a href="#">Comparing Numbers Activity Sheet</a> , comparing 3-digit numbers using words and symbols. <table border="0" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 33%; text-align: center;">  <p>Children compare two representations of 3-digit numbers using words and symbols.</p> </td> <td style="width: 33%; text-align: center;">  <p>Children create a 3-digit number by rolling a dice. They then write another 3-digit number which completes a comparison sentence.</p> </td> <td style="width: 33%; text-align: center;">  <p>Children choose a 3-digit number to correctly complete a comparison sentence. Comparison sentences have one, two or three comparison symbols.</p> </td> </tr> </table>	 <p>Children compare two representations of 3-digit numbers using words and symbols.</p>	 <p>Children create a 3-digit number by rolling a dice. They then write another 3-digit number which completes a comparison sentence.</p>	 <p>Children choose a 3-digit number to correctly complete a comparison sentence. Comparison sentences have one, two or three comparison symbols.</p>	
 <p>Children compare two representations of 3-digit numbers using words and symbols.</p>	 <p>Children create a 3-digit number by rolling a dice. They then write another 3-digit number which completes a comparison sentence.</p>	 <p>Children choose a 3-digit number to correctly complete a comparison sentence. Comparison sentences have one, two or three comparison symbols.</p>			
	<b>Diving into Mastery:</b> Schools using a mastery approach may prefer to use the following as an alternative activity. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding. <table border="0" style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 33%; text-align: center;">  <p>Children identify and draw base ten block representations of numbers that are greater than, less than or equal to each other.</p> </td> <td style="width: 33%; text-align: center;">  <p>Children draw base ten blocks to correctly complete an inequality sign statement. They compare different representations of the same number.</p> </td> <td style="width: 33%; text-align: center;">  <p>Children find different ways of correcting an inequality statement and investigate how to use a set amount of counters to make two equal numbers.</p> </td> </tr> </table>	 <p>Children identify and draw base ten block representations of numbers that are greater than, less than or equal to each other.</p>	 <p>Children draw base ten blocks to correctly complete an inequality sign statement. They compare different representations of the same number.</p>	 <p>Children find different ways of correcting an inequality statement and investigate how to use a set amount of counters to make two equal numbers.</p>	
 <p>Children identify and draw base ten block representations of numbers that are greater than, less than or equal to each other.</p>	 <p>Children draw base ten blocks to correctly complete an inequality sign statement. They compare different representations of the same number.</p>	 <p>Children find different ways of correcting an inequality statement and investigate how to use a set amount of counters to make two equal numbers.</p>			
	<b>Beat the Teacher:</b> Take turns to roll the dice and place the digit in any place. After three rolls each, two 3-digit numbers will have been created. The team (children or teacher) with the largest number wins.				

**Exploreit**

**Findit:** Children compare numbers that they find around the classroom or at home using mathematical vocabulary.



# Guidance for Macros in PowerPoints

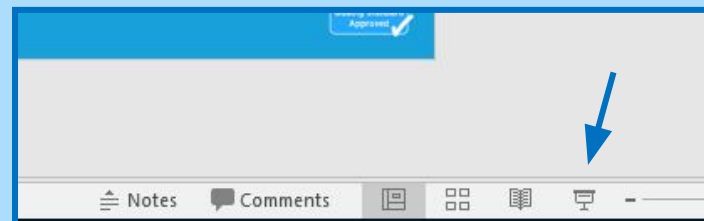
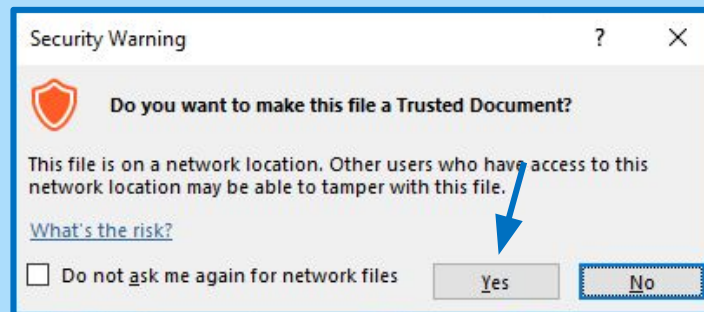
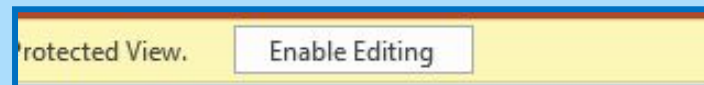
We use macros within PowerPoints to increase the interactivity of our presentations. Follow this simple process to get the most out of this resource.

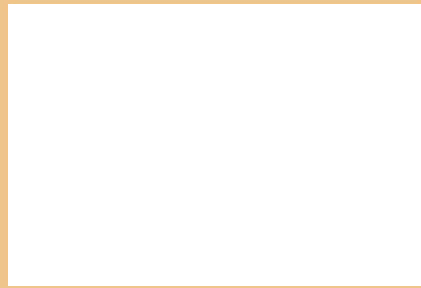
## What to do:

Open the PowerPoint file and enable editing.

A security warning box will appear. Click yes.

Enter presentation mode (start the slide show).





# Maths

## Number and Place Value



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# Comparing Numbers





# Aim

- To compare numbers up to 1000.

# Success Criteria

- I can compare 3-digit numbers using words and phrases.
- I can compare 3-digit numbers using symbols.

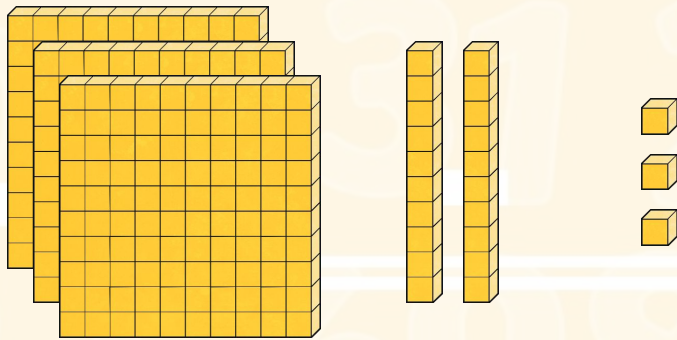


# Remember



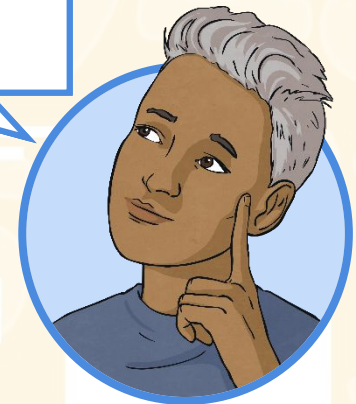
I have 8 base ten blocks (it could be hundreds, tens or ones).  
What number could I have?

Here is one example:  
3 hundred flats, 2 ten sticks and 3 ones cubes.



$$300 + 20 + 3 = 323$$

Can you make 10  
What is the **smallest**  
number you can  
make?







# Comparing Representations

What words or phrases can you think of that could be used to compare numbers?

smaller

smallest

smaller than

less than

the same as

equal to

larger

largest

greater

greatest

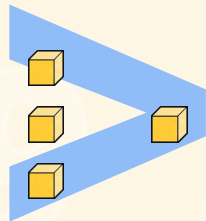
larger than

greater than

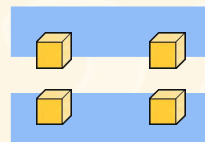


# Comparing Representations

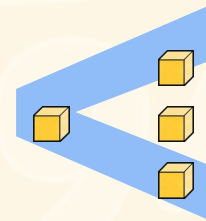
The greater than ( $>$ ), less than ( $<$ ) and equals ( $=$ ) symbols can also be used to compare numbers, like this:



$$3 > 1$$



$$2 = 2$$

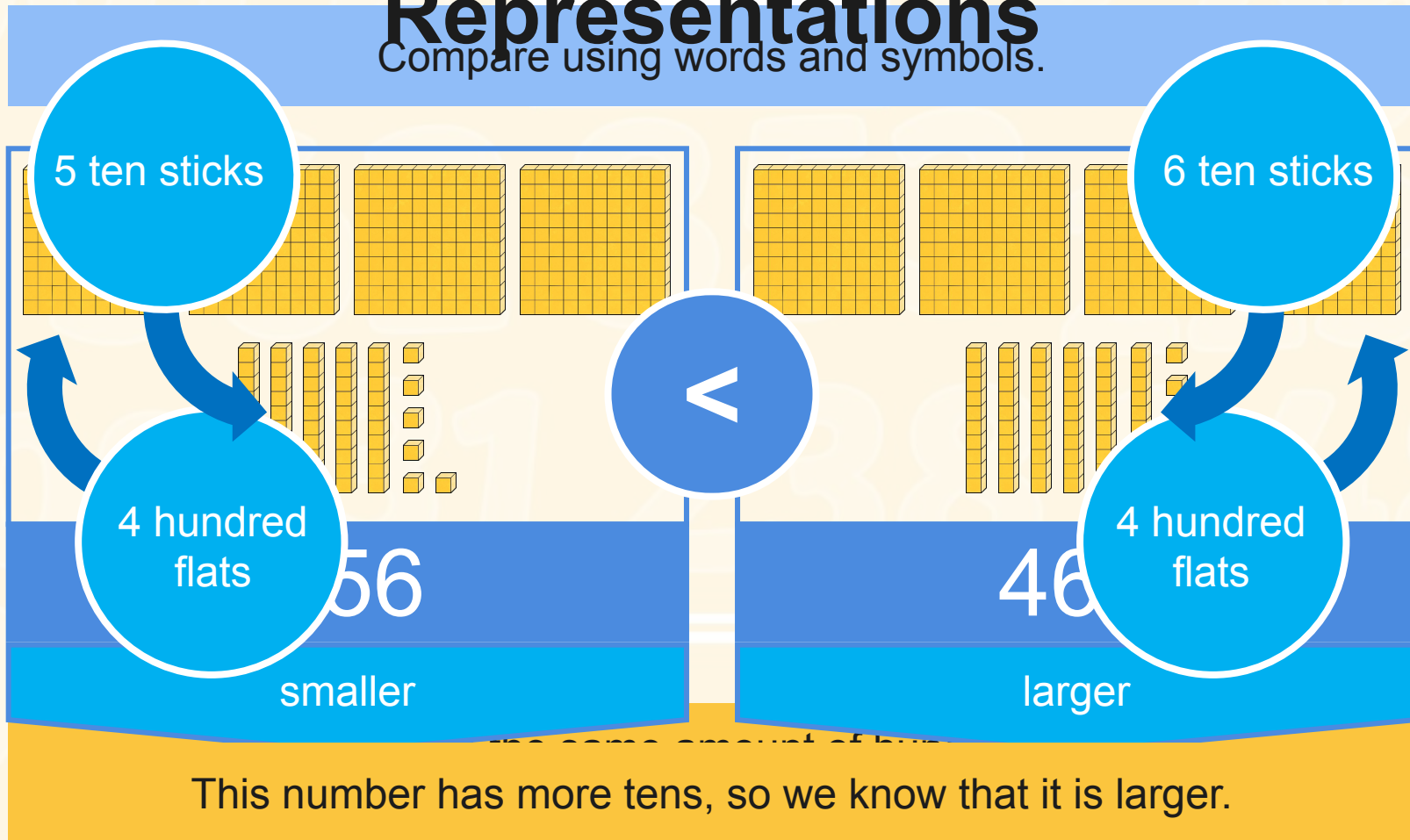


$$1 < 3$$



# Comparing Representations

Compare using words and symbols.

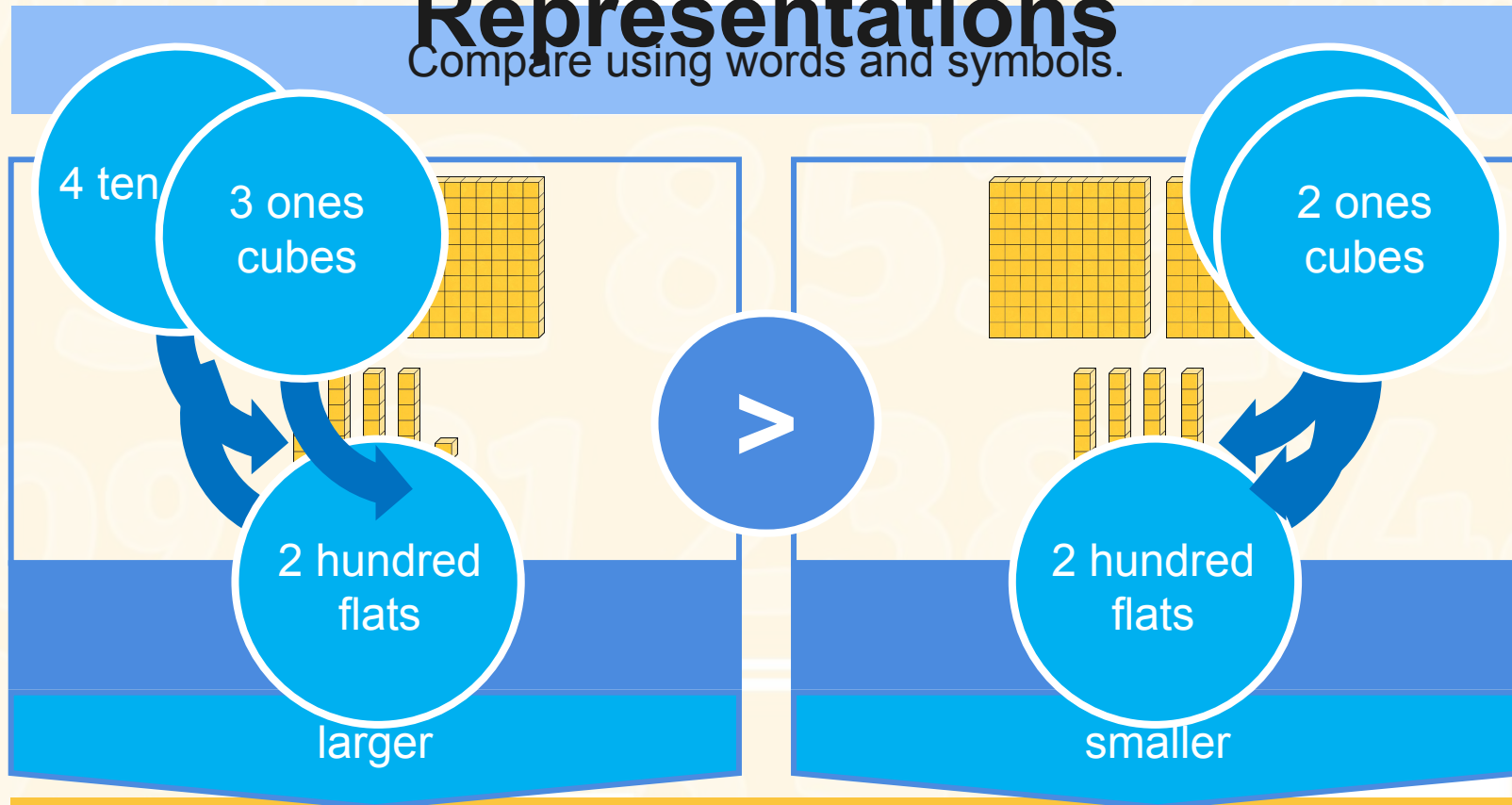




# Comparing

# Representations

Compare using words and symbols.



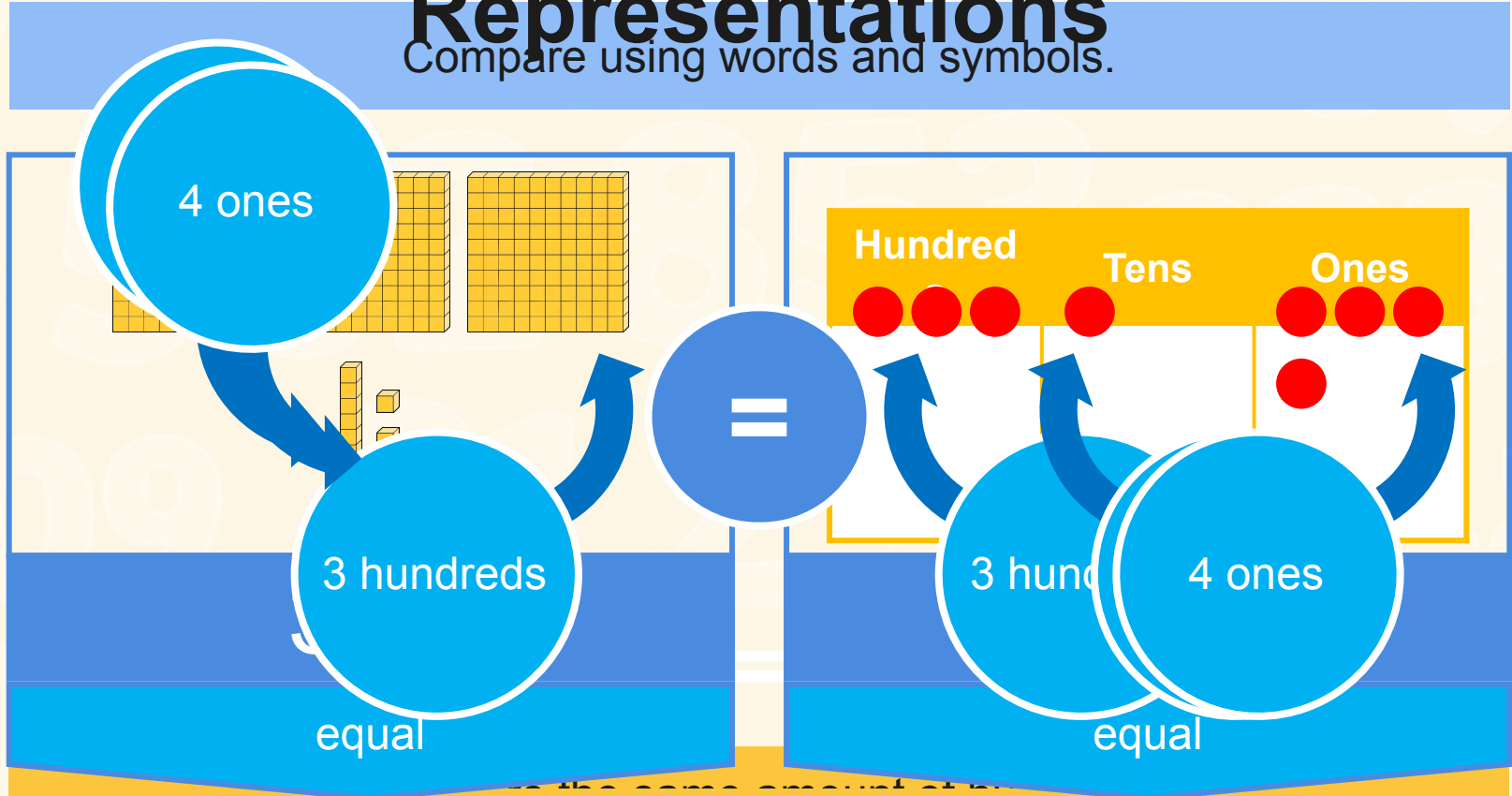
There are the same amount of ten sticks, so now compare the ones cubes.





# Comparing Representations

Compare using words and symbols.



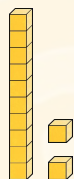
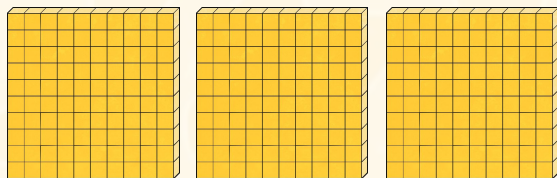
There are the same amount of hundreds, tens and ones.





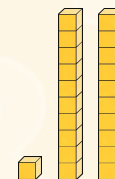
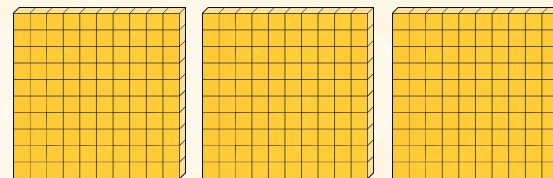
# Comparing Representations

Compare using words and symbols.



312

smaller



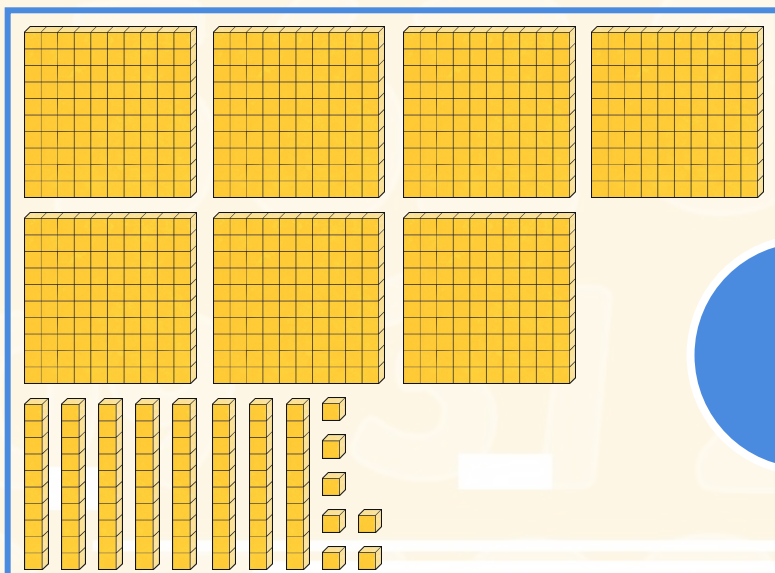
321

larger



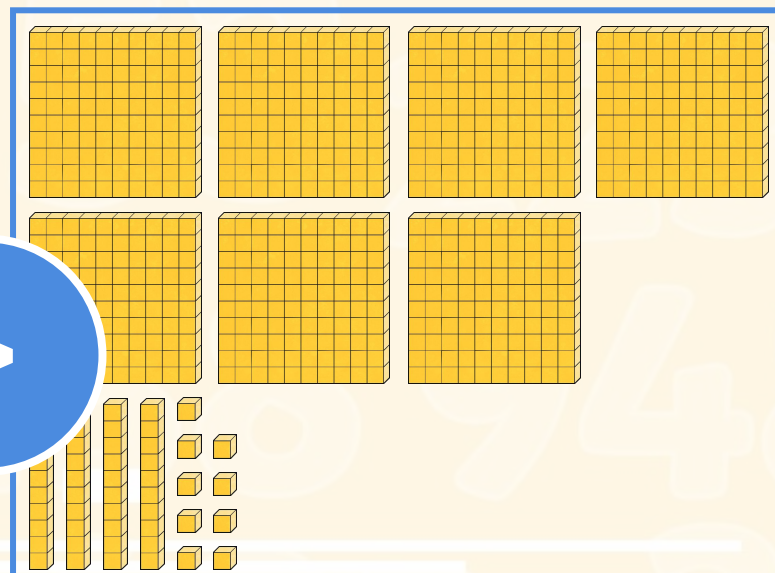
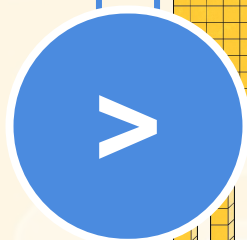
# Comparing Representations

Compare using words and symbols.



787

larger



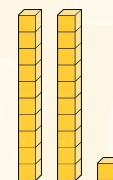
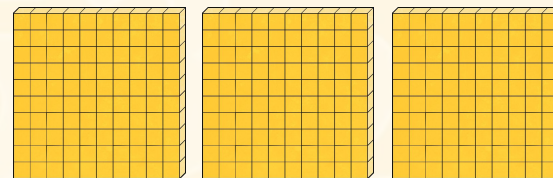
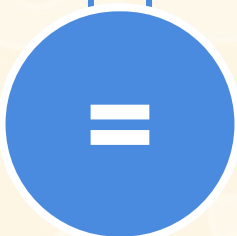
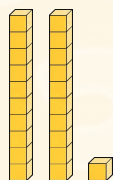
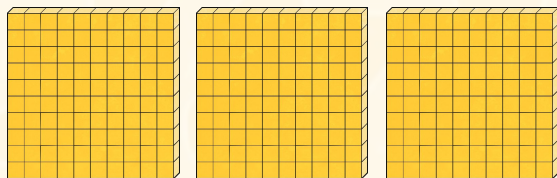
749

smaller



# Comparing Representations

Compare using words and symbols.



321

is equal to

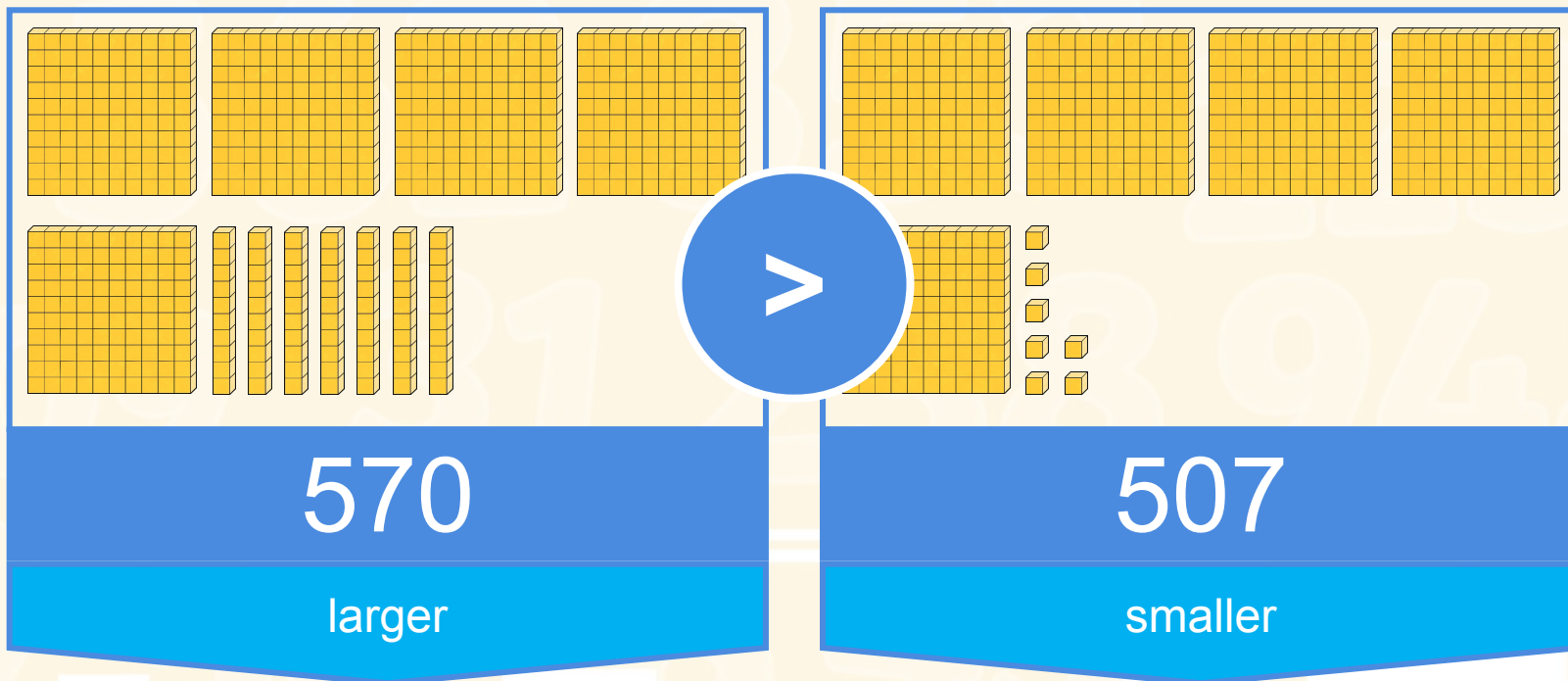
321

is equal to



# Comparing Representations

Compare using words and symbols.







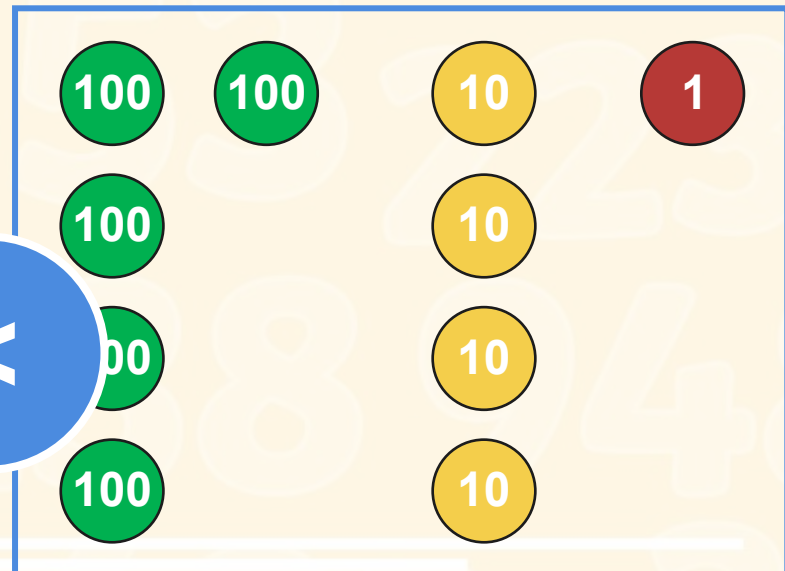
# Comparing Representations

Compare using words and symbols.



328

smaller



541

larger

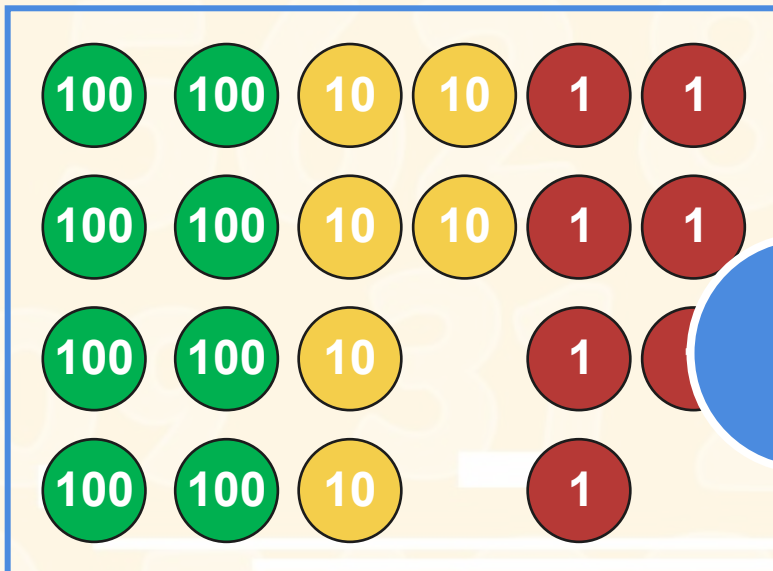






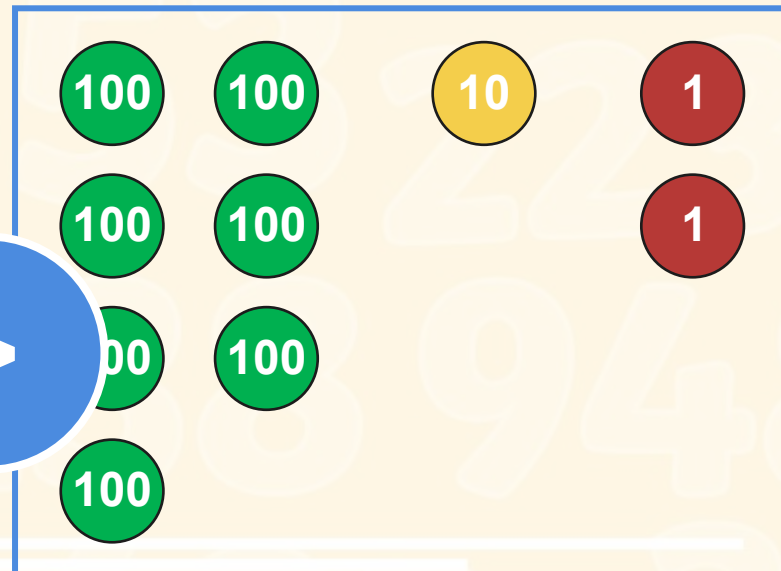
# Comparing Representations

Compare using words and symbols.



eight hundred  
and sixty-seven

larger



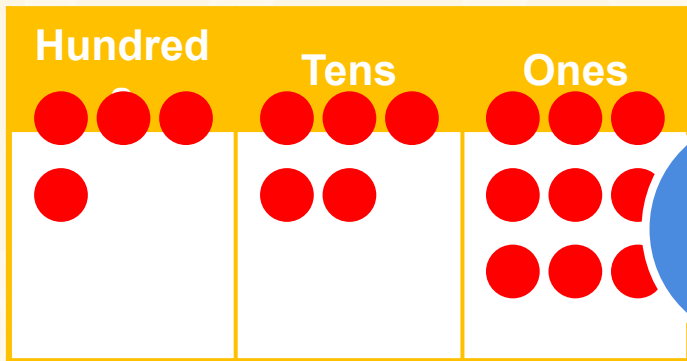
seven hundred  
and twelve

smaller



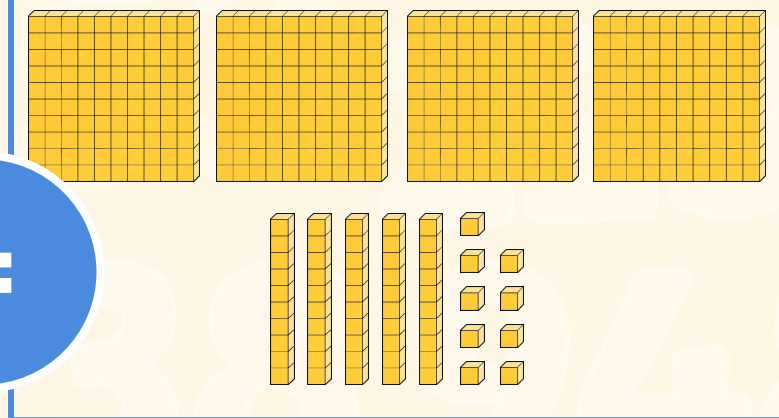
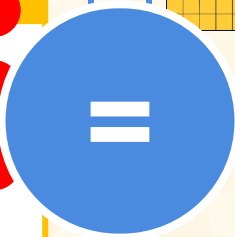
# Comparing Representations

Compare using words and symbols.



four hundred and fifty-nine

is equal to



four hundred and fifty-nine

is equal to



# Number Maker

Roll the dice to create a three-digit number.  
Think of a suitable number to complete the comparison.

Click each number to  
roll.

5

0

4

>

<

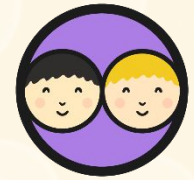
4

5

2



# Comparing



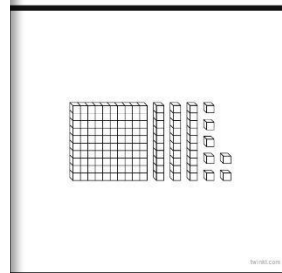
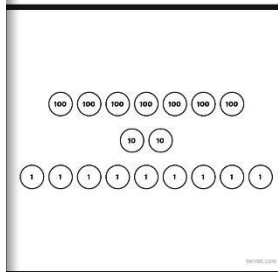
## Comparing Numbers

To compare numbers up to 1000.

Instructions:

- Cut out the **Representation Cards** and the **Comparison Cards**.
- Choose 2 of the representation cards and compare them using a comparison card.
- Use all the cards.

H	T	O
○	○○	○



## Numbers

Numbers up to 1000.

Write the digits in the boxes provided. Read and compare the numbers.

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

\_\_\_\_\_ than \_\_\_\_\_

## Numbers

Numbers up to 1000.

Write the digits in the boxes provided. Read and compare the numbers. Write the comparison sentence correct. Each number can be a 1 or 2-digit number.

915	411	382
821	813	299

317

783

\_\_\_\_\_

999

275 < \_\_\_\_\_

\_\_\_\_\_ < 919

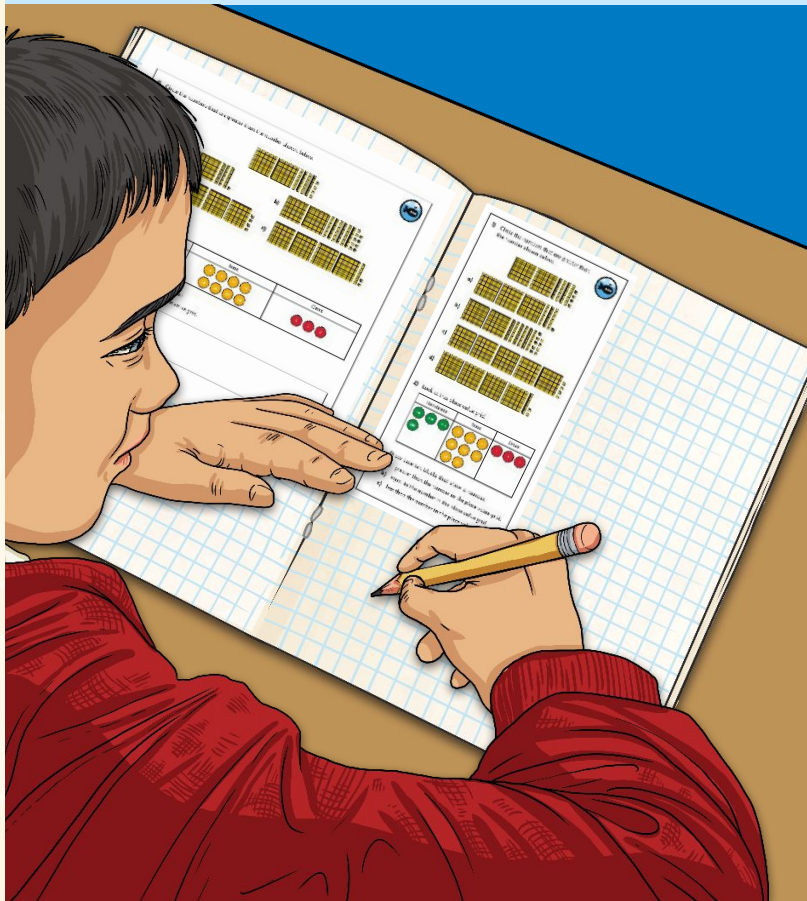
Write the comparison sentences correctly, using just the numbers.










# Diving into Mastery

Dive in by completing your own activity!



1) Circle the numbers that are greater than the number shown below.

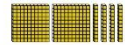





  
 a) 
  
 b) 
  
 c) 
  
 d) 

2) Look at this place value grid.

Hundreds	Tens	Ones

- Draw base ten blocks that show a number:
- a) greater than the number in the place value grid.
  - b) equal to the number in the place value grid.
  - c) less than the number in the place value grid.

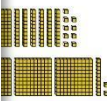

1) Circle the numbers that are greater than the number shown below.


  
 a) 
  
 b) 
  
 c) 
  
 d) 

2) Look at this place value grid.

Hundreds	Tens	Ones

- Draw base ten blocks that show a number:
- a) greater than the number in the place value grid.
  - b) equal to the number in the place value grid.
  - c) less than the number in the place value grid.


  
 Ones: 
  
 \_\_\_\_\_





# Beat the Teacher

Can you create a larger number than me?

We will take turns to roll the dice and place the digit in any place value column. After each rolling the dice 3 times, we will have created 2 three-digit numbers. The team with the largest number wins. Can you beat me?

Click to roll the



My  
Number:

Class  
Number:



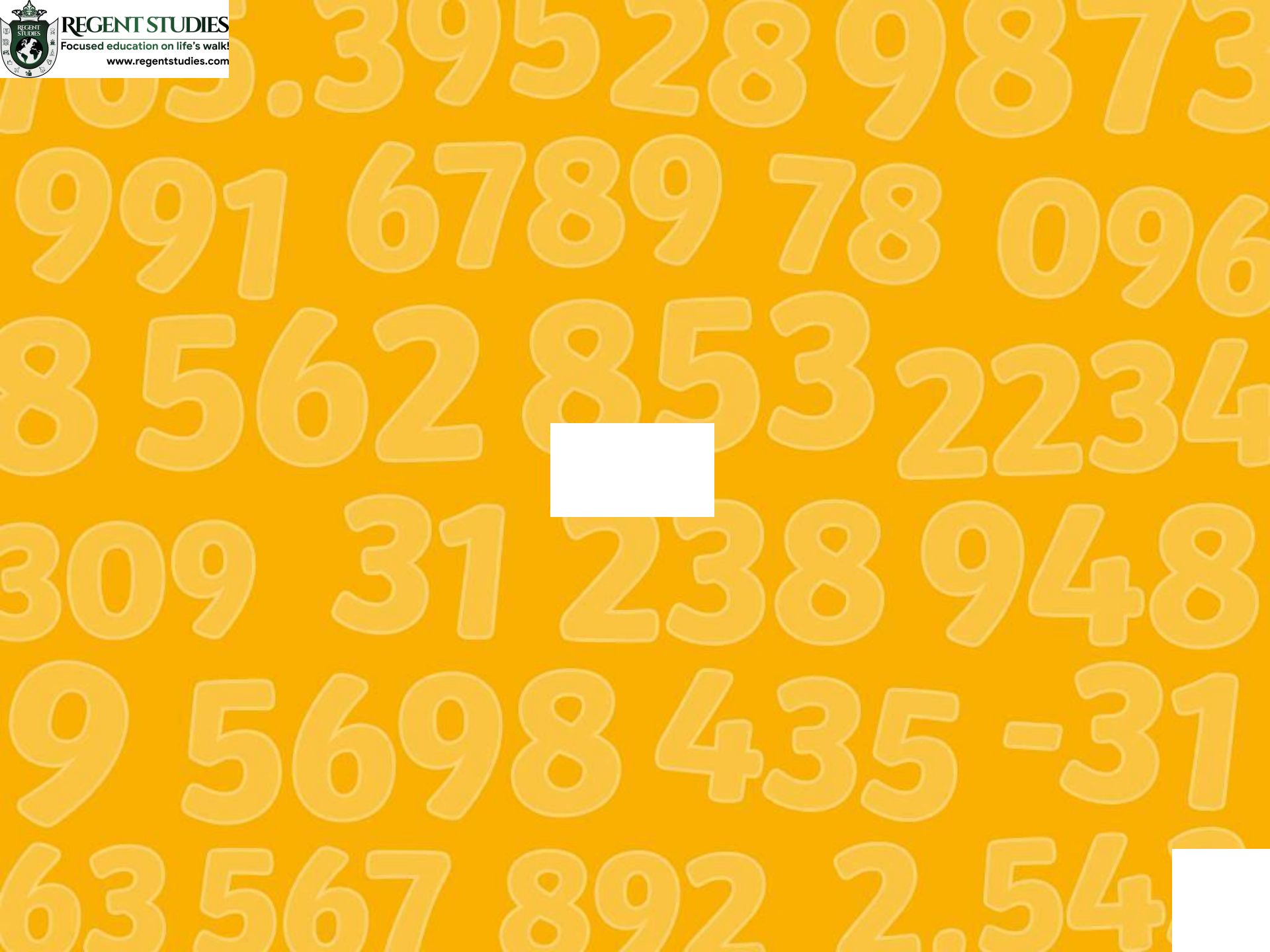
# Aim



- To compare numbers up to 1000.

# Success Criteria

- I can compare 3-digit numbers using words and phrases.
- I can compare 3-digit numbers using symbols.





<b>Aim: To compare numbers up to 1000.</b>				<b>Date:</b>			
				<b>Delivered By:</b>			<b>Support</b>
<b>Success Criteria</b>	<b>Me</b>	<b>Friend</b>	<b>Teacher</b>	<b>T</b>	<b>PPA</b>	<b>S</b>	<b>I</b>
I can compare 3-digit numbers using words and phrases.				<b>Notes/Evidence</b>			
I can compare 3-digit numbers using symbols.							

Next Steps

- 
- 

<b>Aim: To compare numbers up to 1000.</b>				<b>Date:</b>			
				<b>Delivered By:</b>			<b>Support</b>
<b>Success Criteria</b>	<b>Me</b>	<b>Friend</b>	<b>Teacher</b>	<b>T</b>	<b>PPA</b>	<b>S</b>	<b>I</b>
I can compare 3-digit numbers using words and phrases.				<b>Notes/Evidence</b>			
I can compare 3-digit numbers using symbols.							

Next Steps

- 
- 

<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice

<b>T</b>	Teacher	<b>I</b>	Independent
<b>PPA</b>	Planning, Preparation and Assessment	<b>AL</b>	Adult Led
<b>S</b>	Supply	<b>GP</b>	Guided Practice

Number and Place Value | Comparing Numbers

To compare numbers up to 1000.		
I can compare 3-digit numbers using words and phrases.		
I can compare 3-digit numbers using symbols.		

Number and Place Value | Comparing Numbers

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